http://cedp.scag.ca.gov

DRAFT Southern California Association of Governments Catalog of Transportation Land Use (TLU) GHG Reduction Policy Options

A catalog of greenhouse gas (GHG)—reducing actions and policy options based on actions undertaken or considered in climate change action plans by multi-stakeholder groups in a wide cross-section of U.S. states and by state, local, and private participants.

Key to Nominal Rankings of Options in the Tables That Follow:

Potential Cost or Cost Savings 1, 2
High (H) : \$100 per metric ton CO ₂ e (tCO ₂ e) or above
Medium (M): \$0 to \$100/tCO ₂ e
Low (L): Less than \$0/tCO₂e
Uncertain (U): Insufficient information to estimate at this time

¹ Several measures may overlap in terms of emissions reductions and/or cost impacts. "Stand-Alone" estimates provide values for measures that would be implemented independently of other measures, before accounting for potential overlap or synergies ² Costs are denoted by a positive number. Cost savings (i.e., "negative costs") are denoted by a negative number.

Definition of "Priorities for Analysis":

• **High:** High-priority options will be analyzed first.

- Medium: Medium-priority options will be analyzed next, time and resources permitting.
- Low: Low-priority options will be analyzed last, time and resources permitting.

Important Note: The actions are numbered in this catalog solely for convenience in referencing them. Their numbers do NOT reflect a ranking or prioritization of the actions.

Integrated Transportation Land Use (ITLU)

Note that this listing will be developed more fully during the ITLU TWG process. TWG members are encouraged to provide input on policies and programs currently in place to assist in defining baseline conditions. The "Notes" column may be used to record recently enacted policies and programs.

Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
TLU-1. P	PRIORITY GROWTH CENTERS					
1.1	Infill Redevelopment					
1.2	Transit-Oriented Development					
1.3	Brownfield Redevelopment					
1.4	Station Area Planning Requirements					
1.5	Downtown Revitalization					
1.6	Targeted Density for Priority Growth Centers					
1.7	Support revitalization of older, densely settled urban areas					
1.8	Support compact, mixed-use centers in older developed suburban areas					
1.9	Live-work buildings and multi- use buildings					
TLU-2 L	AND USE PLANNING MEASURES	3				l

Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
2.1	Smart Growth Planning, Modeling, and Tools					
2.2	Targeted Open-Space and natural resource Protection					
2.3	"Fix-It-First" and Location- Efficient Funding Strategies					
2.4	Land Use and Building Code Reform					
2.5	Location-efficient mortgage					
2.6	Targeted infrastructure investment section toward priority growth centers					
2.7	Zoning reform measures					
2.8	Support natural resource conservation in outlying areas.					
TLU 3 LO	OCAL CODE DEVELOPMENT, EN	IHANCEMENT,	AND E	NFORCEMENT		
3.1	Emphasize local authority to require low impact development					
3.2	Assess climate impacts of development					
3.3	Streamlining development projects that reduce VMT, energy consumption, transportation impact.					

Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
3.4	Develop model green development and green building laws for local governments to adapt and adopt					
3.5	Assessment of regional impact development projects for climate mitigation					
3.6	Enhance energy efficiency code enforcement and development					
3.7	Prepare model components to add to plans regarding transit station area plans and energy conservation					
3.8	Ensure local enforcement of the state energy code					
3.9	Prepare model energy code enhancement provisions for local adoption					
3.10	Transferable development rights (TDRs)					
TLU-4 IN	ICENTIVE AND DISINCENTIVE PI	ROGRAMS				
4.1	Develop incentives to encourage the reuse of already developed properties,					

Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions		
	regardless of ownership, before developing natural areas							
4.2	Preserve & manage open space in hillsides and water spreading grounds							
4.3	Develop an awards program for preservation of open space & ecological benefits							
4.4	Use plants from local gene pool in local projects adjacent to natural open spaces							
4.5	Develop a species list of water wise and ecologically friendly plants for use in new development and other landscape projects							
4.6	Provide incentives for development projects that include significant natural or constructed open space							
4.7	Provide an extensive and safe system for walking and hiking that links areas							
TLU-5 A	TLU-5 Additions							
5.1	Urban Growth Boundary							

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Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
5.2	Location and Timing of Urban Development					
5.3	Urban Service Lines					
5.4	Urban-Rural Transition Zone					
5.5	Mixed-Use Development					
5.6	Allowable Building Height					
5.7	Flexible Development Standards					
5.8	Supportive Pre-planning					
5.9	Prototype Adaptive Use Buildings					
5.10	Employer-Assisted Housing					
5.11	Services Near Employment Centers					
5.12	Housing Overlay Zone					

Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
5.13	Transit-oriented Mixed-use					
5.14	Amend Code to Promote Transit-oriented Mixed-use					
5.15	Rezone to Allow Mixed Use					
5.16	Expand Zoning for Multi-Family Housing					
5.17	Flexible Parking & Building Height					
5.18	Density Bonus Programs					
5.19	Discourage Auto-oriented Development					
5.20	Transit-oriented Brownfield Development					
5.21	Public Transit Development Focus					
5.22	Density Near Activity Centers					
5.23	Density Near Transit Routes					

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Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
5.24	Links to Transit Stops					
5.25	City-oriented Corridors					
5.26	Transit-oriented Development Design Standards					
5.27	Affordable Housing					
5.28	Design Short Walk to Center					
5.29	Increase Density Towards Center					
5.30	Direct Business Space to Center					
5.31	Locate Schools w/ Safe Routes					
5.32	Location of Driveways					
5.33	Street Parking as Buffer					
5.34	Developer Fees					

Option No.	GHG Reduction Policy Option	Potential GHG Emission Reductions	Cost per Ton	Externalities, Feasibility Considerations	Priority for Analysis	Notes/Related Actions
5.35	Reduce Fees for Brownfield Development					
5.36	Fees for Greenfield Development					
5.37	Planting Trees for Shade					
5.38	Replace Hardscape with Low- Water Landscape					
5.39	Xeriscaping					
5.40	Equal Pedestrian Access					
5.41	Public Involvement					
5.42	System Interconnectivity					
5.43	Zoning and Codes for Live- Work					
5.44	"Complete Streets" Policies					
5.45	Develop Green Alley program					

Acronyms

ASTM = American Society of Testing Materials

ATVs = all-terrain vehicles

B2 = fuel mixture of 2% biodiesel and 98% gasoline

BRT = Bus Rapid Transit

CCI = Cross-Cutting Issues

 CO_2 = carbon dioxide

CMAQ = Congestion Management and Air Quality

DOT = Department of Transportation

E10 = fuel mixture of 10% ethanol and 90% gasoline

EPA = U.S. Environmental Protection Agency

GHG = greenhouse gas

HOV = high-occupancy vehicles

LCF = low-carbon fuel

LRT = light rail transit

LEED = Leadership in Energy and Environmental Design

MPG = miles per gallon

MPO = metropolitan planning organization

R&D = research and development

RFS = renewable fuel standard

SLR = sea level rise

TIF = tax increment financing

TDRs = transferable development rights

TRU = truck refrigeration unit

TWG = Technical Work Group

VMT = vehicle miles traveled.